

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J		PAGE OF PAGES 1 10	
2. AMENDMENT/MODIFICATION NO. 0001		3. EFFECTIVE DATE 23-Feb-2004		4. REQUISITION/PURCHASE REQ. NO. W66QKZ-3181-1705		5. PROJECT NO.(If applicable)	
6. ISSUED BY US ARMY CORPS OF ENGINEER 333 SW FIRST AVE PORTLAND OR 97204-3495		CODE W9127N		7. ADMINISTERED BY (If other than item 6) US ARMY CORPS OF ENGINEER RAYMOND R GREENHECK 503-808-4616 RAYMOND.R.GREENHECK@USACE.ARMY.MIL PORTLAND OR		CODE W9127N	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X		9A. AMENDMENT OF SOLICITATION NO. W9127N-04-Q-0033	
				X		9B. DATED (SEE ITEM 11) 16-Jan-2004	
						10A. MOD. OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u> 1 </u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) See the following pages. The due date for quotes is extended from 13 Feb 2004 to 27 Feb 2004 4:00PM Pacific Time. The purpose of this amendment is to release site visit notes and update the solicitation to specifically not allow ID/OD units. Contractors shall sign blocks 15 a-c and return one copy with their quotes.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)				BY _____ (Signature of Contracting Officer)		23-Feb-2004	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The due date for quotes is extended from 13 Feb 2004 to 27 Feb 2004 4:00PM Pacific Time.

- I. Submission Instructions
 - a. Offerors shall print, sign (block 15 a-c) , and return one copy of each amendment with their offer.
 - b. Offerors shall fill in the pricing section in this amendment, completing showing all CLINS. Failure to submit pricing on this revised schedule may cause the offer to be rejected.
 - c. This amendment changed the wording in CLIN 0003 to remove the references to 20 foot towers and added a new CLIN 0009 with sub-CLINs for optional tower heights of 20' as subCLIN 0009AA, 30' as subCLIN 0009AB, and 40' as subCLIN 0009AC. The Government will exercise the option that best meets our needs after the contract award.
 - d. The period of performance is changed to 8 Mar 2004 through 30 Sep 2004.
 - e. ID/OD units will not be allowed for this project.
- II. No other terms or conditions of the solicitation are changed.

REVISED SCHEDULE, AMENDMENT 0001

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001		1	Each	\$	\$
	<p>Request Information on a Microwave Communications Link System.</p> <p>The Dalles Dam</p> <p>The Dalles Dam Radio Terminal "Microwave Associates Tadiran CM7 HC, NP, High Power, 100Base T+DS3 or equivalent per paragraph 2.0 of the Statement Of Work (SOW). Provide sufficient power sources and associated power devices and materials to satisfy the operating power requirements per paragraph 2.12 of the SOW, to all equipment provided under this contract at The Dalles Dam. Reserve Power equipment and batteries to meet the backup requirements of paragraph 2.12 of the SOW. Standard 4' antenna complete with radome and all mounting hardware and materials. Provide a complete set of waveguide, cables, connectors, struts, hangers and adapters required to provide connectivity between the radio and antenna assemblies. Automatic dehydrator with a wall mount capability. Provide a standard EIA 19" equipment rack capable of being used to mount the equipment list above. Installation of all equipment will be at The Dalles Dam. This includes all radios, antennas, UPS equipment, cabling, power and ground connections. On-site testing and verification of optimum operation of all installed equipment.</p> <p>(NAICS 517310, Small Business Size Standard 1,500 Employees)</p> <p>PURCHASE REQUEST NUMBER: W66QKZ-3181-1705</p>				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002		1	Each	\$	\$
	<p>John Day Dam</p> <p>John Day Dam Communications Link System. Radio Terminal "Microwave Associates Tadiran CM7 HC, NP, High Power, 100Base T+DS3 or equivalent per paragraph 2.0 of the Statement Of Work (SOW). Provide sufficient power sources and associated power devices and materials to satisfy the operating power requirements per paragraph 2.12 of the SOW, to all equipment provided under this contract at the John Day Dam. Reserve Power equipment and batteries to meet the backup requirements of paragraph 2.12 of the SOW. Standard 4' antenna complete with radome and all mounting hardware and materials. Provide a complete set of waveguide, cables, connectors, struts, hangers and adapters required to provide connectivity between the radio and antenna assemblies. Automatic dehydrator with a wall mount capability. Provide a standard EIA 19" equipment rack capable of being used to mount the equipment list above. Installation of all equipment inside the John Day Dam. This includes all radios, antennas, UPS equipment, cabling, power and ground connections. On-site testing and verification of optimum operation of all installed equipment.</p>				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003		1	Lump Sum	\$	\$
	<p>Sentinel Peak</p> <p>The CLIN extended description has changed TO: 2 Radio Terminals. Microwave Associates Tadiran CM7 HC, NP, High Power, 100BaseT+DS3 or equivalent per paragraph 2.0 of the SOW. Provide power sources and associated power devices and materials sufficient to satisfy the operating power requirements of paragraph 2.12 of the SOW, to all equipment provided under this contract at the John Day Dam. Reserve Power equipment and batteries to meet the backup requirements of paragraph 2.12 of the SOW. Provide a standard 4' antenna complete with radome and all mounting hardware and materials. Provide a standard 6' antenna complete with radome and all mounting hardware and materials. Provide 2 complete sets of waveguide, cables, connectors, struts, hangers and adapters required to provide connectivity between the radio and antenna assemblies. Automatic dehydrator with a wall mount capability. Provide a standard EIA 19" equipment rack capable of being used to mount the equipment list above. Installation of all equipment inside the existing COE Building and on the new adjacent tower. This includes all radios, antennas, UPS equipment, cabling, power and ground connections. Provide and install a new Tower (see sizes of tower in CLIN 0009 below) capable of withstanding winds in excess of 80 to 90 MPH with 4' and 6' antenna above mounted. Remove and dispose of existing tower, pad and mounting hardware. Installation of tower assembly described in line item 3 above. Installation includes specifying, forming, pouring and finishing a suitable mounting pad for the tower. The installed tower shall meet all requirements of paragraph 5.0 of the SOW. On-site testing and verification of optimum operation of all installed equipment.</p>				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004		1	Lump Sum	\$	\$
	<p>Stacker Butte</p> <p>2 Radio Terminals. Microwave Associates Tadiran CM7 HC, NP, High Power, 100BaseT+DS3 or equivalent per paragraph 2.0 of the SOW. Provide power sources and associated power devices and materials to provide sufficient operating power per the requirements of paragraph 2.12 of the SOW, to all equipment provided under this contract at the John Day Dam. Provide reserve Power equipment and batteries to meet the backup requirements of paragraph 2.12 of the SOW. Provide a standard 4' antenna complete with radome and all mounting hardware and materials. Provide a standard 6' antenna complete with radome and all mounting hardware and materials. Provide 2 complete sets of waveguide, cables, connectors, struts, hangers and adapters required to provide connectivity between the radio and antenna assemblies. Installation of all equipment inside the existing Washington State Patrol Building and on the adjacent tower. This includes all radios, antennas, UPS equipment, cabling, power and ground connections. On-site testing and verification of optimum operation of all installed equipment.</p>				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005		4	Each	\$	\$
	<p>Training and Documentation</p> <p>Provide training to Corps of Engineers craftsman per the requirements of paragraph 7.0 of the SOW. Provide documentation per paragraph 8.0 of the SOW.</p>				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006		1	Years	\$	\$
OPTION	<p>Warranty Repair Year One</p> <p>Provide on-site warranty repair and support per paragraph 6.1 of the SOW.</p>				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007		1	Years	\$	\$
OPTION	Warranty Repair Year Two Provide warranty repair and support per paragraph 6.2 of the SOW				

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008		1	Each	\$	\$
OPTION	System Spares Provide spare equipment and materials per paragraph 10 of the SOW. Equipment and materials required to support the system in the event of a failure that are, by nature, long lead-time procurement items. As a minimum, one complete radio set including radio TX_RX, DS3 Mux and Ethernet Bridge. The contractor shall list the additional items they are going to provide in this kit.				

CLIN 0009 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009					
	Sentinel Peak Tower				

SUBCLIN 0009AA is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009AA		1	Each	\$	\$
OPTION	20 Foot tower option				

SUBCLIN 0009AB is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009AB		1	Each	\$	\$
OPTION	30 Foot tower option				

SUBCLIN 0009AC is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009AC		1	Each	\$	\$
OPTION	40 Foot tower option				

				Contract Total	\$
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DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001 – 0009AC	POP 8-MAR-2004 TO 30-SEP-2004	N/A	ADMINISTRATION SECTION MICHELLE KISER USACE PORTLAND DISTRICT THE DALLES DAM IN THE DALLES OR 97058-9998 541-298-7652 FOB: Destination	G2R1D10

Site visit notes 1/29/04 Microwave link The Dalles to John Day.

Attendance:

Name	Organization	Phone
Kathy Burke	USACE – CT	503-808-4609
Ray Greenheck	USACE – CT	503-808-4616
Morry Secrest	USACE – PM	503-808-4335
Bob Ford	USACE – OP	541-298-7504
Sherman Meyer	Day Wireless	503-228-9292
Arnold Ragsdale	Day Wireless	503-228-9292
Tom Hoffman	LTI Data Comm	703-742-4000
Gary (Jake) Jacobs	Astro Systems Corp ***(Canadian)	425-922-7033
Mike Pettingill	Bear Wireless Worldwide	503-209-1364
Dennis Greenwell	Bear Wireless Worldwide	503-232-5600
Howard Stuttman	Bear Wireless Worldwide	503-232-5600
Koa Kollars	TTK Associates	425-745-5898
Brian Adams	Sawtooth Technologies, LLC	503-807-3048
Frank Young	PNS Communications Group	425-391-6649
Keith Fisher	Evergreen Utility	206-423-9706
Scott Roth	Loma Land LC	208-532-4791
Mike White	Loma Land LC	208-860-7369
Robin Smyth	Gillespie, Prudhon & Associates	503-657-0424
Doug Reynolds	Gillespie, Prudhon & Associates	503-657-0424
Randy Barnes	W&H Pacific	503-372-3640
Michel White	Cougar Mountain Tower	208-935-7796

Mr. Greenheck and Mr. Ford gave the introductions and overview of the project as well as the plan for the site visit progression. Basically we want the microwave communications to allow us to control the John Day Dam from The Dalles Dam control room. We need a minimum 155MB data transfer capability. At this time this will be used for control and transfer of administrative data, no voice communications. However we still require the “Wayside Traffic Unit (T1) that the specification calls for. We want to have “Ethernet” connectivity on both sides via an RJ-45 connector, again per the specification.. The Government will provide the LAN Data connection to the contractor’s equipment and any core drilling that may be needed. The contractor shall provide the communications system to handle the communications between the dams. The Government will provide 110V power at all sites with power distribution points within 15 feet of the location the contractor will be placing their equipment.

Question (Q): How long of a battery backup will be required?

Answer (A): Minimum of 8 hours is needed.

Q: Will dam structural drawings be provided to include floor plans, cross sections, and elevations?

A: Yes, the Government will make these available; note that the Government will do any drilling necessary. The drawings you need are DDP1.5-4-4/31 and DDP-1.5-4-4/21. The files will be converted to either a JPG or TIF format

Q: Where will the first dish be mounted?

A: We prefer to have it mounted on the side of the monolith, but it is acceptable to put it on the roof of the monolith. We prefer to have the equipment placed in the gallery on the 6th floor (Elevation 115 Ft) with the lines dropped down the outside of the monolith around 110 feet in all. After further research, I have modified my plans. The connection must go down the outside of the monolith and bore through the outside wall directly into the equipment location. We CANNOT use the elevator shaft for access between floors.

Q: Why no voice communications.

A: Maybe someday we'll add voice too, but for now we are only concerned with Ethernet for controls and admin data transfer.

Q: Sentinel Peak tower – The RFQ says it is to be 20 feet is this correct or should it be taller (See CLIN 0003 and SOW Para 5, page 34) ?

A: We'll determine the final height when we all look at the site. The current antenna tower height is 15 feet, and we think that it is 5 feet too short, but if it needs to be higher we'll amend the solicitation. Our analysis determined that the tower was too short and not stout enough to support the weight of the two proposed antennas.

Notes: Stacker Butte is a Washington State Patrol (WSP) site and a wildlife refuge. The contractor will need to be licensed to do business in WA and OR as John Day, and both towers are in WA, but John Day is in OR. Power at Stacker Butte is at least 115V. The east wall is available for placing the equipment.

Q: Do we have the azimuths between the towers and the dams?

A: Yes, the Government will provide them.

Q: Does the Government still want the 8-hour battery backup at Stacker Butte given that it has an emergency backup generator?

A: Yes. However, any batteries that are installed need to be of the sealed type.

Note: Stacker Butte tower will allow a 6' dish to be mounted around 25' high for communications to Sentinel Peak, and a 4' Dish mounted at around the 40' mark for communications to The Dalles Dam. The elevation at Stacker butte is 2902'. It has a 140' ROM tower.

Q: Can the contractors get the drawings for the ROM tower so they can figure out hanger sizes?

A: Yes, the Government will make these drawings available. We just need to get them from the WSP first. Although, past experience with WSP contact and information has been slow and not very timely.

At John Day Dam the Government will provide the 110v power to the radio room. There is plenty of space for the new 12' rack.

Q: Does the Government want the new rack to be the same size as what is in the radio room? It is about 11'. The existing 6" rack is as full as it can be. Would we want a new 12" rack installed?

A: Yes, a new 12-foot rack is desired.

Q: Can the batteries go in the radio room? If you allow jell cell batteries they last longer and there is no need for ventilation.

A: The Government will decide if the batteries can be placed in the radio room. Our safety Regulations state we must use sealed batteries. Jell Cells are fine.

Q: Will the Government provide man lifts for the installation work?

A: No, the contractor shall provide all necessary tools and equipment for the installation. The Government will only provide the 110V power and will do any required core drilling.

Note the National Fire and National Electrical Codes must be followed. No PVC jacketed cabling will be allowed within the powerhouse structure.

Q: Is the size for each antenna and dish set?

A: No, the contractors are the professionals on these systems and if they want to propose using different sizes we will consider this.

Q: Does the Government want the top of the line systems installed?

A: Yes. We have put the minimum requirements in the Statement of Work. Reliability should meet 99.99999% standards.

Q: On the drawings and submittals, how detailed do they need to be?

A: The drawings shall reflect positioning and wiring information sufficient to provide the COE enough knowledge to support and repair the system. A complete listing of part numbers and parts manufacturers

shall be provided as well.

Q: Will the GPS coordinates be corrected? They appear to be off considerably. Are they stated in NED 1927 or NED 1983?

A: We'll check these coordinates out and correct them if necessary. What is NED 1927/1983?? Good question, my coordinates are based on the WGS84 Datum. I assume that the coordinates provided should suffice for as a starting place. I would think that for antenna alignment purposes, the contractor will take his own readings during installation and alignment.

Note: we will be adding a CLIN for soil sample testing for the Sentinel peak tower site. The new Site visit was the week of 9 Feb.

Q: what is the size standard. Block 10 shows 1500 employees, but one of the clauses states that if the company is not the manufacture of the item the size standard is 500.

A: Per FAR 52.212-1, the small business size standard for a company that will be furnishing an item that it doesn't manufacture is 500 employees. If Harris wanted to quote on this project the size standard shown in block 10 on the front (1,500 employees) would apply, but for everyone I expect to quote on this, it will be 500 employees as you don't make the equipment yourselves.

Microwave Site Visit 2/13/04

Attendance:

Ray Greenheck	USACE – CT	503-808-4616
Dave Duvall	USACE – OP	541-298-7422
Bob Ford	USACE – OP	541-298-7504
Sherman Meyer	Day Wireless	503-228-9292
Don Miller	Day Wireless	503-659-1240x203
Arnold Ragsdale	Day Wireless	503-228-9292
Hank Smith	LTI Data Comm	703-742-4000
Ed Mahnic	Astro Systems Corp	425-922-7033
Dennis Greenwell	Bear Wireless Worldwide	503-232-5600
Keith Fisher	Evergreen Utility	206-423-9706
Randy Barnes	W&H Pacific	503-372-3640
Robin Smith	GP&A	

All parties meet at the John Day Dam Security Gate at 0900, then proceeded up to Sentinel Peak.

Q: Does the USACE want to have radio control mechanisms installed as well as the microwave dishes?

A: No just the microwave.

Q: Does the old/existing tower need to remain in place and operational until the new tower and system are up and running?

A: No, the old tower may be taken down prior to putting up the new one, but the USACE doesn't want lag time between the old one coming down and the new one being put up. The interval between the removal of the old tower and the installation of the new tower should be as short as possible.

In the existing radio hut we will need to have the existing radio equipment moved. Some minor movement is possible and there is a possibility that at least one radio set may be removed. But I would expect the contractors to use what space and power is currently available in the hut.

New options will be added to the contract for different highest for the new tower. Since we could not see the dam due to the fog this will allow all contractors to bid on the same things, yet will let the final decision as to high of the new tower be determined at a later date. Sizes will be 20', 30', and 40'.

Q: Is the path clear between the peaks?

A: Yes you can easily see one tower from the other.

Q: Does the USACE want test equipment set up at each location to track problems? Note this would require adding DSX and fuse panels at each site.

A: No, This may be added at a latter time. But due to funding constraints we are unable to install the option at this time.

Note the existing radio shed is approximately 7' high by 6' wide by 12' long. The new racks will have to fit in this space.

The official Frequency approval is in and concurred with by Phil Dana the USACE Portland District frequency manager.

No Indoor/Outdoor (ID/OD) equipment will be allowed for this project. We have decided that the maintenance and accessibility problems associated with this sort of system will be too problematic for our people to maintain. Our people would have to go up on the towers, thus requiring us to coordinate the shut down of all transmissions by the other users in order to do maintenance. This would be problematic for both the WSP and OPB.

Therefore we are amending the solicitation to not allow ID/OD systems, and stick with the original antenna idea using Harris Tadaran or equivalent equipment.

SECTION SF 1449 - CONTINUATION SHEET

SOLICITATION/CONTRACT FORM

The required response date/time has changed from 13-Feb-2004 04:00 PM to 27-Feb-2004 04:00 PM.

(End of Summary of Changes)